

Listing of the Claims:

The following is a complete listing of all the claims in the application, with an indication of the status of each:

1 1 (Currently Amended). A bus power-supply device structured to supply
2 power from a power-supply voltage of a node to a an IEEE-1394 Standard
3 serial bus connected to the node through a physical layer and a plurality of
4 connectors conducting to each other of the node, wherein

5 when none of a power supply voltage of said node is not supplied, a
6 DC voltage is supplied from said IEEE-1394 Standard serial bus to said
7 physical layer, and

8 when said power-supply voltage is supplied, a path for supplying a
9 DC voltage from said serial bus to said physical layer is cut off to supply a
10 DC voltage from said power-supply voltage to said physical layer and
11 wherein the bus power-supply device comprises:

12 voltage detection means for detecting said power-supply voltage
13 being supplied or not being supplied, and

14 selection means for

15 a) supplying a DC voltage coming from said IEEE-1394 Standard
16 serial bus to said physical layer in response to said voltage detection means
17 not detecting a power-supply voltage and

18 b) cutting off the path for supplying a DC voltage from said IEEE-
19 1394 Standard serial bus to said physical layer to supply a DC voltage
20 from the power-supply voltage to said physical layer in response to said
21 voltage detection means detecting the power supply voltage.

2 (Canceled).

1 3 (Original). The bus power-supply device as set forth in claim 1,
2 comprising a comparator as said voltage detection means.

1 4 (Currently Amended). The bus power-supply device as set forth in claim
2 2 1, comprising: as wherein said selection means comprises:

3 a first path for supplying power from said power-supply voltage to
4 said physical layer, and

5 a second path for supplying power coming from said serial bus to
6 said physical layer, wherein when power is supplied from said
7 power-supply voltage, said second path is cut off.

1 5 (Currently Amended). The bus power-supply device as set forth in claim
2 2 1, comprising a semiconductor switch as said selection means.

1 6 (Currently Amended). The bus power-supply device as set forth in claim
2 2 1, comprising a comparator as said voltage detection means.

1 7 (Currently Amended). The bus power-supply device as set forth in claim
2 2 1, comprising a relay element as said voltage detection means and said
3 selection means.

1 8 (Currently Amended). The bus power-supply device as set forth in claim
2 1, further comprising:

3 a power-supply circuit for converting said power-supply voltage
4 into a DC voltage for said serial bus and outputting the DC voltage, and

5 voltage conversion means for converting a DC voltage output from
6 said power-supply circuit into a DC voltage for said physical layer,

7 voltage detection means for detecting said power-supply voltage
8 being supplied or not being supplied to said power-supply circuit, and

9 said selection means for supplying a DC voltage applied from said
10 IEEE-1394 Standard serial bus to said voltage conversion means when said
11 power-supply voltage is not supplied to said power-supply circuit and

12 cutting off a path for supplying a DC voltage from said IEEE-1394
13 Standard serial bus to said voltage conversion means to supply an output of
14 said power-supply circuit to said voltage conversion means when said
15 power-supply voltage is supplied.

1 9 (Currently Amended). The bus power-supply as set forth in claim 8,
2 comprising: as wherein said selection means comprises:
3 a first path for supplying power from said power-supply voltage to
4 said physical layer, and
5 a second path for supplying power coming from said serial bus to
6 said physical layer, wherein when power is supplied from said
7 power-supply voltage, said second path is cut off.

1 10 (Original). The bus power-supply as set forth in claim 8, wherein said
2 voltage detection means detects said power-supply voltage being supplied
3 or not being supplied by detecting an output voltage of said power-supply
4 circuit.

1 11 (Original). The bus power-supply as set forth in claim 8, wherein said
2 voltage detection means detects said power-supply voltage being supplied
3 or not being supplied by detecting an output voltage of said power-supply
4 circuit, and which further comprises as said selection means:

5 a first path for supplying power from said power-supply voltage to
6 said physical layer, and
7 a second path for supplying power coming from said serial bus to
8 said physical layer, wherein when power is supplied from said
9 power-supply voltage, said second path is cut off.

1 12 (Original). The bus power-supply as set forth in claim 8, comprising as
2 said selection means:

AS
3 a first path for supplying power from said power-supply voltage to
4 said physical layer, and

5 a second path for supplying power coming from said serial bus to
6 said physical layer, wherein when power is supplied from said
7 power-supply voltage, said second path is cut off, and said selection means
8 is structured by a semiconductor switch.

1 13 (Original). The bus power-supply as set forth in claim 8, wherein said
2 voltage detection means detects said power-supply voltage being supplied
3 or not being supplied by detecting an output voltage of said power supply
4 circuit, and said selection means is structured by a semiconductor switch.

1 14 (Original). The bus power-supply as set forth in claim 8, comprising a
2 comparator as said voltage detection means.

1 15 (Original). The bus power-supply device as set forth in claim 8,
2 comprising a relay element as said voltage detection means and said
3 selection means.

1 16 (Currently Amended). A node connected to a an IEEE-1394 Standard
2 serial bus, comprising:

3 a plurality of connectors connected to the IEEE-1394 Standard
4 serial bus each having a power-supply terminal to which a DC voltage is
5 applied from other nodes and a signal terminal to and from which a signal
6 from other nodes is input and output,

7 a physical layer for outputting a signal input through a signal
8 terminal of one connector to a signal terminal of the other connector, and

9 a bus power-supply device structured to supply power from a
10 power-supply voltage to said physical layer and said serial bus, wherein
11 power-supply terminals of said plurality of connectors and rendered

12 conductive to each other,
13 said bus power-supply device
14 supplies a DC voltage from the serial bus to said physical layer
15 through said power-supply terminal when none of a power-supply voltage
16 of said node is supplied, and
17 cuts off a path for supplying a DC voltage from said serial bus to
18 said physical layer to supply a DC voltage from the power-supply voltage
19 to said physical layer when said power-supply voltage is supplied, and
20 wherein said bus power-supply device comprises:
21 voltage detection means for detecting said power-supply voltage
22 being supplied or not being supplied to said power-supply circuit, and
23 selection means for
24 a) supplying a DC voltage applied from said IEEE-1394 Standard
25 serial bus to said physical layer when said voltage detection means detects
26 that power-supply voltage is not supplied to said power-supply circuit, and
27 b) cutting off a path for supplying a DC voltage from said IEEE-
28 1394 Standard serial bus to said physical layer to supply an output of said
29 power-supply circuit to said physical layer when said power-supply voltage
30 is supplied.

17 (Canceled).

1 18 (Currently Amended). The node as set forth in claim 17 16, comprising
2 as said selection means of said bus power-supply device:
3 a first path for supplying power from said power-supply voltage to
4 said physical layer, and
5 a second path for supplying power coming from said serial bus to
6 said physical layer, wherein when power is supplied from said
7 power-supply voltage, said second path is cut off.

19 (Currently Amended). The node as set forth in claim 16, wherein said bus power-supply device further comprises:

a power-supply circuit for converting said power-supply voltage into a DC voltage for said serial bus and outputting the DC voltage,

voltage conversion means for converting a DC voltage output from said power-supply circuit into a DC voltage for said physical layer,

~~voltage detection means for detecting said power-supply voltage being supplied or not being supplied to said power-supply circuit, and~~

said selection means for supplying a DC voltage applied from said IEEE-1394 Standard serial bus to said voltage conversion mans when said power-supply voltage is not supplied to said power-supply circuit and cutting off a path for supplying a DC voltage from said IEEE-1394 Standard serial bus to said voltage conversion means to supply an output of said power-supply circuit to said voltage conversion means when said power-supply voltage is supplied.
